

~~SECRET~~21 August 1970
SG-70/291

MEMORANDUM FOR: Chief, RID/ADB

SUBJECT : Use of 1600 bpi Tape Drive for the SC-4360


1. With regard to your suggestion that we obtain a 1600 bpi tape drive for the SC-4360, I was told the following by the Stromberg Datagraphix representative. An IBM or other "foreign" tape drive using 1600 bpi cannot be hooked to the SC-4360 because the 1600 bpi is phase-encoded and the SC-4360 requires NRZI recording. Only the Stromberg F-512 tape drive has the capability of converting phase-encoded to NRZI without building a special interface, and it rents for \$535/month. In addition, we would have to have the SC-4360 modified to accept data at 60 KB and this costs \$100 (one-time charge) plus an additional \$95/month on the rental for a total of \$630/month. This is \$380 more per month than we are paying for the IBM 2401 Mod 1. This seems a high price to pay for a 30% increase in recording speed and the convenience of accepting either 1600 or 800 bpi.

Texas
Instrument
Company

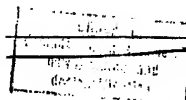
2. Actual throughput of the SC-4360 is only 4,000-4,500 pages/hour because we have to change film every 100 feet, rather than rated speed of 6,000-7,000 pages/hour. The SD-4440 has a 1,000 foot film magazine, records up to 20,000 pages/hour, and rents for about \$4,000/month plus tape drive. It is recommended that we wait until our work load justifies an SD-4440 and then change equipment rather than trying to upgrade the SC-4360.


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